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METHOD AND DEVICE FOR THE DIGITAL IMAGE PROCESSING OF CMOS CAMERA
IMAGES

CROSS REFERENCE TO RELATED APPLICATIONS

This application is the US national phase of PCT
application PCT/DE2003/003939, filed 28 November 2003, published 1
July 2004 as WO 2004/055727, and claiming the priority of German
patent application 10258662.4 itself filed 13 December 2002, whose
entire disclosures are herewith incorporated by reference.

FIELD OF THE INVENTION

The invention relates to a method as well as to a
device for the digital image processing of CMOS camera images.

BACKGROUND OF THE INVENTION

To be able to process images with a computer system they
must be converted to a data format which is computer compatible.
This conversion is called digitalizing in digital image processing.
The original image data is transformed into a computer-conforming
data format. The transformations can be available as two-
dimensional or multidimensional functions for the processing.
Upon the taking of the picture, a continuous scene is spatially
discretized. One possible mathematical description of digitalizing
image data uses a notation in the form of image matrices. The
image S (the scene S) is a rectangular matrix (image matrix) $S = (s(x, y))$ with image rows and image columns. The row index is x
and the column index is y. The image point (pixel) at a location
(row, column) = (x, y) determines the gray value $s(x, y)$. Thus
elemental regions of the scene are each imaged as a pixel of the
image matrix. For digitalizing the image data, a rastering (grid,